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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,697	02/25/2004	Mathew T. Abraham	010886.00633	3661
22908	7590 07/28/2005		EXAMINER	
BANNER & WITCOFF, LTD.			SELLERS, DANIEL R	
TEN SOUTH WACKER DRIVE SUITE 3000 CHICAGO, IL 60606		ART UNIT	PAPER NUMBER	
			2644	TATER NOMBER
ŕ			DATE MAILED: 07/28/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comment	10/786,697	ABRAHAM, MATHEW T.				
Office Action Summary	Examiner	Art Unit				
	Daniel R. Sellers	2644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>05 May 2005</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the men						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to.					
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8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) \boxtimes The drawing(s) filed on <u>25 February 2004</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) 🗵 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) 🔲 Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Dother:						

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DETAILED ACTION

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Response to Arguments

1. Applicant's arguments filed May 05, 2005 have been fully considered but they are not persuasive.

2. Regarding Miller, Miller teaches that a "... control link connects the automatic equalizers 20a and 20b for arbitrating and/or synchronizing the testing frequency generation and response analysis...." (emphasis added). Miller teaches that the response analysis is an analysis of the frequency spectrum (Col. 2, lines 33-39). Therefore it is inherent that synchronizing the response analysis must include a step of informing either channel that feedback is detected. The limitation that the other channel may continue is irrelevant, because the phrase imposes no limitation whether or not that the channel continues. It either continues or it does not.

Miller also teaches that the multiband gain control unit is **any device** that can be automatically controlled to vary the gain of a selected audio band, and Miller teaches in one embodiment that the bands are ½ to 1 octave wide spaced 1/3 an octave apart (Col. 4, lines 21-46). Theses widths cover 6 to 12 semitones and are spaced every 4 semitones in a western musical scale, and typical notch filters are usually a few to several semitones wide. The fact that Miller teaches that the multiband control unit can be any device that would have these desirable features, it is inherent that the multiband control unit can be 31 notch filters, which would be automatically controlled.

3. Regarding the 35 USC 103 rejection using the combination of Miller and Jaeger, see the above response. Miller teaches a synchronization of a response analysis,

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wherein it is inherent that the multichannel system shares detection information to synchronize an analysis. Jaeger teaches that filter parameters are shared to preserve a stereo image. The office maintains that the combination for the purpose of preserving a stereo image would be obvious.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel R. Sellers whose telephone number is 571-272-7528. The examiner can normally be reached on Monday to Friday, 9am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DRS

VIVIAN CHIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600